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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/553,787	09/05/2006	Rajeev Siddaramappa Hundekar	4661-0107PUS1	3971
2292	7590	02/06/2008	EXAMINER	
BIRCH STEWART KOLASCH & BIRCH			TRIEU, THAI BA	
PO BOX 747			ART UNIT	PAPER NUMBER
FALLS CHURCH, VA 22040-0747			3748	
NOTIFICATION DATE		DELIVERY MODE		
02/06/2008		ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

Office Action Summary	Application No.	Applicant(s)
	10/553,787	HUNDEKAR, RAJEEV SIDDARAMAPPA
	Examiner	Art Unit
	Thai-Ba Trieu	3748

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 21 October 2005.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 13-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 13-25 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 21 October 2005 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 10/21/2005.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application
- 6) Other: _____.

DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

1. New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because of insufficient quality to permit examination. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: "8" (see Figure 1); and "8", "15", "22", and "25" (See Figure 5). Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being

amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "**13**" has been used to designate both "**common output shaft 13**" and "**rotor 13**" (See Page 7 of substitute Specification, lines 3-4). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

4. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "shaft

members of ... In the form of equilateral/isosceles triangle" (See Claim 19) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The disclosure is objected to because of the following informalities:

On Pages 1-2, "@" should be replaced by -at --.

Appropriate correction is required.

Claim Suggestions

1. Applicant is suggested to revise the claimed limitations as following to address the rejection under 112, second paragraph, double recitation, and maintain the consistency:

--13. (New) A centrifugal engine charger for Internal Combustion (IC) Engines driven by a combined gear arrangement for multi-speed operation, said centrifugal engine charger comprising:

a) an electro-magnetic coil disposed in [[the]] a clutch mechanism to receive signal from an electronic control unit,

wherein said clutch mechanism further comprising a one-way clutch
and two centrifugal clutches/at least one centrifugal clutch,

b) a pulley means to receive input torque from the engine,

c) [[a]] said one-way clutch disposed between said electro-magnetic coil and pulley to act as a switch in activating either said coil or pulley,

d) a metallic face plate disposed adjacent to said coil to receive activation from said magnetic coil,

e) a ring gear with a pair of sliding engagement members connected to each other by means of an axial spline, one of said members comes in magnetic contact with the face plate on receiving activation from the coil via face plate and the other in rotary communication with a ring gear of an eccentric gear drive,

~~[[f) an eccentric gear drive,]]~~ **wherein** said eccentric gear drive further comprising an external circular rotating ring gear with a suitable tooth profile on its inner surface, a plurality of shaft members placed at equal distance from each other with one shaft placed at the central axis of said external circular rotating ring gear and the other shafts placed at equal distances, a sun gear is housed in the external circular rotating ring gear by way of mounting the same on the shaft members with its teeth profile meshed with teeth profile of the ring gear to have a centrifugal and circumferential rotary motion, said sun gear provides a rotary motion to the central shaft,

g) [[a]] one of said two centrifugal clutches/said at least one of the centrifugal clutch in conditional contact with the central shaft on one side and a rotor shaft of the engine on the other side subject to a pre-determined rpm, said rotor shaft driving an impeller of the engine charge, and

the other one of said two centrifugal clutches/ the other one of said at least one of a centrifugal clutch in conditional contact with the sun gear on one side and the rotor shaft of the engine on the other side subject to a pre-determined rpm, said rotor shaft driving an impeller of the engine charger, and

h) a planetary gear drive of low gear ratio, said planetary gear activated by the pulley in conjunction with the one-way clutch in absence of electrical signal from the magnetic coil,

~~[[f]]~~ **wherein** said planetary gear further ~~[[comprising,]]~~ comprises an external circular rotating ring gear with a suitable teeth profile on its inner

surface, a carrier disposed inside said external circular rotating ring gear, a pair of planetary gears mounted on said carrier, a sun gear is meshed in between said planetary gears, said planetary gears transmit rotary motion obtained from said external circular rotating ring gear to the sun gear,

~~[[j) a centrifugal clutch in conditional contact with the sun gear on one side and the rotor shaft of the engine on the other side subject to a pre-determined rpm, said rotor shaft driving an impeller of the engine charger]].~~

Note that:

Applicant should select one of the terms -- two centrifugal clutches or at least one centrifugal clutch to apply in claims.

Applicant should maintain the consistency for the other claims.

2. Applicant is suggested to revise the method claim 22 into an independent method claim including all the limitations of the apparatus claim 13.

Additionally, claims 23-25 should be revise in the format of the method claim.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 13 and its dependent claims 14-25 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Specifically,

Claim 13, part f), the recitation of "by way of mounting the same on the shaft members" renders the claim indefinite, since it is not clear that applicant wants to describe the same way of mounting the sun gear, or the same shaft members the sun gear to be mounted? Applicant is required to clarify or to revise the claimed limitations.

Claim 13 recites the limitation "the clutch" in part a). There is insufficient antecedent basis for this limitation in the claim.

Claim 13, "magnetic coil" in part d) is a double recitation.

Claim 13, "an eccentric gear drive" in part f) is a double recitation.

Claim 25, the recitation of "a desired output rpm being provided on variable input rpm" renders the claim indefinite, since it is not clear that how can a variable input rpm provide a desired output rpm? And which output rpm can be considered as a desired output, or compared to in order to be recognized as a desired one. Applicant is required to clarify or to revise the claimed limitation.

Prior Art

The IDS (PTO-1449) filed on October 21, 2005 has been considered. An initialized copy is attached hereto.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai-Ba Trieu whose telephone number is (571) 272-4867. The examiner can normally be reached on Monday - Thursday (6:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion can be reached on (571) 272-4859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TTB
January 18, 2008



Thai-Ba Trieu
Primary Examiner
Art Unit 3748